

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for creating a keyword string database on a wireless user device, the method comprising:

determining one or more candidate keyword strings to store in said database;

for each of said one or more candidate keyword strings, creating a single bit vector ~~one or more~~ bit vectors based at least in part on said each of said one or more candidate keyword strings, said ~~one or more~~ bit vectors for use in comparing an input bit vector with said ~~one or more~~ bit vectors to indicate whether an input keyword string represented by said input bit vector matches said one or more candidate keyword strings, said input keyword string provided by a user of said wireless user device; and storing said one or more bit vectors and a reference to said one or more candidate keyword strings in said database.
2. (Original) The method of claim 1 wherein said bit vector further comprises at least one bit that represents a non-alphanumeric symbol.
3. (Original) The method of claim 2 wherein said non-alphanumeric symbol indicates an email address.
4. (Original) The method of claim 2 wherein said non-alphanumeric symbol indicates a mobile number.

5. (Original) The method of claim 2 wherein said non-alphanumeric symbol indicates a wired number.
6. (Original) The method of claim 2 wherein said non-alphanumeric symbol indicates a paper-mail address.
7. (Original) The method of claim 2 wherein said non-alphanumeric symbol indicates a cost ranking.
8. (Original) The method of claim 2 wherein said non-alphanumeric symbol indicates a quality ranking.
9. (Original) The method of claim 2 wherein said non-alphanumeric symbol indicates a cuisine.

10-12 (Cancelled)

13. (Currently Amended) A method for incremental keyword search on a wireless user device, the method comprising:

receiving from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols;

creating a single bit vector based at least in part on said input keyword string;

comparing said bit vector with one or more other bit vectors representing at least one candidate keyword string to create a set of matching bit vectors;

applying a conventional keyword matching algorithm to said at least one candidate keyword string represented by said set of matching bit vectors; and
presenting any matching candidate keyword strings.

14. (Original) The method of claim 13, further comprising preempting said method after a predetermined amount of time.

15. (Original) The method of claim 14 wherein said predetermined amount of time is two seconds.

16. (Original) The method of claim 13 wherein said comparing is independent of the order of keyword prefixes in keyword strings.

17. (Currently Amended) A method for creating a keyword string database on a wireless user device, the method comprising:

determining one or more candidate keyword strings to store in said database;

for each of said one or more candidate keyword strings, creating a single bit vector ~~one or~~

~~more bit vectors~~ based at least in part on said each of said one or more candidate

keyword strings, said bit vector having a bit position for each symbol in an alphabet and

having bits set for bit positions corresponding to at least one symbol representing the

first symbol of a word in said each of said one or more candidate keyword strings, said

~~one or more~~ bit vectors for use in comparing an input bit vector with said ~~one or more~~

bit vectors to indicate whether an input keyword string represented by said input bit

vector matches said one or more candidate keyword strings; and

storing said one or more bit vectors and a reference to said one or more candidate keyword strings in said database.

18. (Previously Presented) A method for incremental keyword search on a wireless user device, the method comprising:

submitting to said wireless user device an input keyword string comprising one or more words comprising one or more symbols; and

receiving in response to said submitting at least one candidate keyword string where the first symbol of at least one word in each of said at least one candidate keyword string matches the first symbol of the corresponding word in said input keyword string.

19. (Original) The method of claim 18, further comprising preempting said method after a predetermined amount of time.

20. (Original) The method of claim 19 wherein said predetermined amount of time is two seconds.

21. (Currently Amended) A method for incremental keyword search on a wireless user device, the method comprising:
receiving from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols;
creating a single bit vector based at least in part on said input keyword string, said bit vector having a bit position for each symbol in an alphabet and having bits set for positions

corresponding to at least one symbol representing the first symbol of a word in said input keyword string;

comparing said bit vector with one or more other bit vectors representing at least one candidate keyword string to create a set of matching bit vectors;

applying a conventional keyword matching algorithm to said at least one candidate keyword string represented by said set of matching bit vectors; and

presenting any matching candidate keyword strings.

22. (Original) The method of claim 21, further comprising preempting said method after a predetermined amount of time.

23. (Original) The method of claim 22 wherein said predetermined amount of time is two seconds.

24. (Original) The method of claim 21 wherein said comparing is independent of the order of keyword prefixes in keyword strings.

25. (Currently Amended) A method for comparing keyword strings on a wireless user device, the method comprising:

determining a relative frequency of use for at least one symbol in a language;

assigning a statistical weighting to said at least one symbol based at least in part on a relative frequency of use of said at least one symbol;

assigning each of said at least one symbol to one of a plurality of groups; and

comparing a first keyword string and a second keyword string based at least in part on whether at least one symbol of said first keyword string is assigned to the same group as at least one corresponding symbol of said second keyword string; and
presenting a result of said comparing to a user of said wireless user device.

26. (Original) The method of claim 25 wherein said assigning further comprises assigning each of said at least one symbol to one of a plurality of groups so as to minimize the difference between the sums of statistical weightings for symbols comprising each group in said plurality of groups.

27. (Original) The method of claim 25 wherein said relative frequency of use comprises the relative frequency of use of symbols in the first character of words in said language.

28. (Previously Presented) A method for creating a keyword string database on a wireless user device, the method comprising:
determining one or more candidate keyword strings to store in said database;
creating one or more bit vectors based at least in part on said one or more candidate keyword strings, each bit of said one or more bit vectors corresponding to one or more symbols in an alphabet, bits having a bit position corresponding to the first symbol of a word in said one or more candidate keyword strings being set, said one or more bit vectors for use in comparing an input bit vector with said one or more bit vectors to indicate whether an input keyword string represented by said input bit vector matches said one or more candidate keyword strings; and

storing said one or more bit vectors and a reference to said one or more candidate keyword strings in said database.

29-31 (Cancelled)

32. (Currently Amended) A method for incremental keyword search on a wireless user device, the method comprising:

receiving from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols, each symbol representing the first symbol of a word in a search string;

creating a single bit vector based at least in part on said input keyword string, each bit corresponding to one or more symbols in an alphabet, bits having a bit position corresponding to said one or more symbols being set;

comparing said bit vector with one or more other bit vectors representing at least one candidate keyword string to create a set of matching bit vectors;

applying a conventional keyword matching algorithm to said at least one candidate keyword string represented by said set of matching bit vectors; and

presenting any matching candidate keyword strings.

33. (Original) The method of claim 32, further comprising preempting said method after a predetermined amount of time.

34. (Original) The method of claim 33 wherein said predetermined amount of time is two seconds.

35. (Original) The method of claim 32 wherein said comparing is independent of the order of keyword prefixes in keyword strings.
36. (Previously Presented) A method for creating a keyword string database on a wireless user device, the method comprising:
- determining one or more candidate keyword strings to store in said database;
 - creating one or more bit vectors based at least in part on said one or more candidate keyword strings, each bit of said one or bit vector corresponding to one or more symbols in an alphabet, bits having a bit position corresponding to a symbol of a prefix of a word in said one or more candidate keyword strings being set, said one or more bit vectors for use in comparing an input bit vector with said one or more bit vectors to indicate whether an input keyword string represented by said input bit vector matches said one or more candidate keyword strings; and
 - storing said one or more bit vectors and a reference to said one or more candidate keyword strings in said database.
37. (Previously Presented) A method for incremental keyword search on a wireless user device, the method comprising:
- submitting an input keyword string comprising one or more words comprising one or more symbols; and
 - receiving in response to said submitting at least one candidate keyword string where a prefix of a word of a matching candidate keyword string comprises at least one symbol that

belongs to the same symbol group as the corresponding symbol of the corresponding word in said input keyword string.

38. (Original) The method of claim 37, further comprising preempting said method after a predetermined amount of time.

39. (Original) The method of claim 38 wherein said predetermined amount of time is two seconds.

40. (Currently Amended) A method for incremental keyword search on a wireless user device, the method comprising:

receiving from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols;

creating a single bit vector based at least in part on said input keyword string, each bit

corresponding to one or more symbols in an alphabet, bits having a bit position

corresponding to a prefix of a word in said one or more symbols being set;

comparing said bit vector with one or more other bit vectors representing at least one

candidate keyword string to create a set of matching bit vectors;

applying a conventional keyword matching algorithm to said at least one candidate keyword string represented by said set of matching bit vectors; and

presenting any matching candidate keyword strings.

41. (Original) The method of claim 40, further comprising preempting said method after a predetermined amount of time.

42. (Original) The method of claim 41 wherein said predetermined amount of time is two seconds.

43. (Original) The method of claim 40 wherein said comparing is independent of the order of keyword prefixes in keyword strings.

44. (Previously Presented) A method for incremental keyword search on a wireless user device, the method comprising:

receiving from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols, each symbol representing the first symbol of a word in a search string;

receiving a hierarchy, elements of said hierarchy comprising intermediate nodes and leaf nodes representing one or more keyword strings comprising one or more words comprising one or more symbols;

creating hierarchy bit vectors corresponding to said one or more keyword strings in said hierarchy;

searching said hierarchy bit vectors for a match with said input keyword string, said searching comprising, for each of said elements of said hierarchy:

saving said input keyword string;

applying a logical “AND” operation to the bit vector of the element and a bit vector based at least in part on said input keyword string, said applying producing a result;

if said result is nonzero, removing from said input keyword string any words in said input keyword string that are prefixes of words in the element;

if said input keyword string is empty, adding said element to a list of matched items; and restoring said input keyword string; and

rendering said list of matched items.

45. (Currently Amended) A method for creating a keyword string database on a wireless user device, the method comprising:
- step for determining one or more candidate keyword strings to store in said database;
 - step for, for each of said one or more candidate keyword strings, creating a single bit vector ~~one or more bit vectors~~ based at least in part on said each of said one or more candidate keyword strings, said ~~one or more~~ bit vectors for use in comparing an input bit vector with said ~~one or more~~ bit vectors to indicate whether an input keyword string represented by said input bit vector matches said one or more candidate keyword strings, said input keyword string provided by a user of said wireless user device; and
 - step for storing said one or more bit vectors and a reference to said one or more candidate keyword strings in said database.
46. (Original) The method of claim 45 wherein said bit vector further comprises at least one bit that represents a non-alphanumeric symbol.
47. (Original) The method of claim 46 wherein said non-alphanumeric symbol indicates an email address.
48. (Original) The method of claim 46 wherein said non-alphanumeric symbol indicates a mobile number.

49. (Original) The method of claim 46 wherein said non-alphanumeric symbol indicates a wired number.
50. (Original) The method of claim 46 wherein said non-alphanumeric symbol indicates a paper-mail address.
51. (Original) The method of claim 46 wherein said non-alphanumeric symbol indicates a cost ranking.
52. (Original) The method of claim 46 wherein said non-alphanumeric symbol indicates a quality ranking.
53. (Original) The method of claim 46 wherein said non-alphanumeric symbol indicates a cuisine.
- 54-56 (Cancelled)
57. (Currently Amended) A method for incremental keyword search on a wireless user device, the method comprising:
- step for receiving from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols;
 - step for creating a single bit vector based at least in part on said input keyword string;
 - step for comparing said bit vector with one or more other bit vectors representing at least one candidate keyword string to create a set of matching bit vectors;

step for applying a conventional keyword matching algorithm to said at least one candidate keyword string represented by said set of matching bit vectors; and
step for presenting any matching candidate keyword strings.

58. (Original) The method of claim 57, further comprising step for preempting said method after a predetermined amount of time.

59. (Original) The method of claim 58 wherein said predetermined amount of time is two seconds.

60. (Original) The method of claim 57 wherein said comparing is independent of the order of keyword prefixes in keyword strings.

61. (Currently Amended) A method for creating a keyword string database on a wireless user device, the method comprising:

step for determining one or more candidate keyword strings to store in said database;

step for, for each of said one or more candidate keyword strings, creating a single bit vector

~~one or more bit vectors~~ based at least in part on said each of said one or more candidate keyword strings, said bit vector having a bit position for each symbol in an alphabet and having bits set for bit positions corresponding to at least one symbol representing the first symbol of a word in said each of said one or more candidate keyword strings, said ~~one or more~~ bit vectors for use in comparing an input bit vector with said ~~one or more~~ bit vectors to indicate whether an input keyword string represented by said input bit vector matches said one or more candidate keyword strings; and

step for storing said one or more bit vectors and a reference to said one or more candidate keyword strings in said database.

62. (Previously Presented) A method for incremental keyword search on a wireless user device, the method comprising:

step for submitting to said wireless user device an input keyword string comprising one or more words comprising one or more symbols; and

step for receiving in response to said submitting at least one candidate keyword string where the first symbol of at least one word in each of said at least one candidate keyword string matches the first symbol of the corresponding word in said input keyword string.

63. (Original) The method of claim 62, further comprising step for preempting said method after a predetermined amount of time.

64. (Original) The method of claim 63 wherein said predetermined amount of time is two seconds.

65. (Currently Amended) A method for incremental keyword search on a wireless user device, the method comprising:

step for receiving from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols;

step for creating a single bit vector based at least in part on said input keyword string, said bit vector having a bit position for each symbol in an alphabet and having bits set for

positions corresponding to at least one symbol representing the first symbol of a word in said input keyword string;

step for comparing said bit vector with one or more other bit vectors representing at least one

candidate keyword string to create a set of matching bit vectors;

step for applying a conventional keyword matching algorithm to said at least one candidate

keyword string represented by said set of matching bit vectors; and

step for presenting any matching candidate keyword strings.

66. (Original) The method of claim 65, further comprising step for preempting said method after a predetermined amount of time.

67. (Original) The method of claim 66 wherein said predetermined amount of time is two seconds.

68. (Original) The method of claim 65 wherein said comparing is independent of the order of keyword prefixes in keyword strings.

69. (Currently Amended) A method for comparing keyword strings on a wireless user device, the method comprising:

step for determining a relative frequency of use for at least one symbol in a language;

step for assigning a statistical weighting to said at least one symbol based at least in part on a

relative frequency of use of said at least one symbol;

step for assigning each of said at least one symbol to one of a plurality of groups; and

step for comparing a first keyword string and a second keyword string based at least in part on whether at least one symbol of said first keyword string is assigned to the same group as at least one corresponding symbol of said second keyword string; and
step for presenting a result of said comparing to a user of said wireless user device.

70. (Original) The method of claim 69 wherein said step for assigning further comprises step for assigning each of said at least one symbol to one of a plurality of groups so as to minimize the difference between the sums of statistical weightings for symbols comprising each group in said plurality of groups.

71. (Original) The method of claim 69 wherein said relative frequency of use comprises the relative frequency of use of symbols in the first character of words in said language.

72. (Previously Presented) A method for creating a keyword string database on a wireless user device, the method comprising:
step for determining one or more candidate keyword strings to store in said database;
step for creating one or more bit vectors based at least in part on said one or more candidate keyword strings, each bit of said one or more bit vectors corresponding to one or more symbols in an alphabet, bits having a bit position corresponding to the first symbol of a word in said one or more candidate keyword strings being set, said one or more bit vectors for use in comparing an input bit vector with said one or more bit vectors to indicate whether an input keyword string represented by said input bit vector matches said one or more candidate keyword strings; and

step for storing said one or more bit vectors and a reference to said one or more candidate keyword strings in said database.

73-75 (Cancelled)

76. (Currently Amended) A method for incremental keyword search on a wireless user device, the method comprising:

step for receiving from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols, each symbol representing the first symbol of a word in a search string;

step for creating a single bit vector based at least in part on said input keyword string, each bit corresponding to one or more symbols in an alphabet, bits having a bit position corresponding to said one or more symbols being set;

step for comparing said bit vector with one or more other bit vectors representing at least one candidate keyword string to create a set of matching bit vectors;

step for applying a conventional keyword matching algorithm to said at least one candidate keyword string represented by said set of matching bit vectors; and

step for presenting any matching candidate keyword strings.

77. (Original) The method of claim 76, further comprising step for preempting said method after a predetermined amount of time.

78. (Original) The method of claim 77 wherein said predetermined amount of time is two seconds.
79. (Original) The method of claim 76 wherein said comparing is independent of the order of keyword prefixes in keyword strings.
80. (Previously Presented) A method for creating a keyword string database on a wireless user device, the method comprising:
- step for determining one or more candidate keyword strings to store in said database;
 - step for creating one or more bit vectors based at least in part on said one or more candidate keyword strings, each bit of said one or more bit vector corresponding to one or more symbols in an alphabet, bits having a bit position corresponding to a symbol of a prefix of a word in said one or more candidate keyword strings being set, said one or more bit vectors for use in comparing an input bit vector with said one or more bit vectors to indicate whether an input keyword string represented by said input bit vector matches said one or more candidate keyword strings; and
 - step for storing said one or more bit vectors and a reference to said one or more candidate keyword strings in said database.
81. (Previously Presented) A method for incremental keyword search on a wireless user device, the method comprising:
- step for submitting an input keyword string comprising one or more words comprising one or more symbols; and

step for receiving in response to said submitting at least one candidate keyword string where a prefix of a word of a matching candidate keyword string comprises at least one symbol that belongs to the same symbol group as the corresponding symbol of the corresponding word in said input keyword string.

82. (Original) The method of claim 81, further comprising step for preempting said method after a predetermined amount of time.

83. (Original) The method of claim 82 wherein said predetermined amount of time is two seconds.

84. (Currently Amended) A method for incremental keyword search on a wireless user device, the method comprising:

step for receiving from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols;

step for creating a single bit vector based at least in part on said input keyword string, each bit corresponding to one or more symbols in an alphabet, bits having a bit position corresponding to a prefix of a word in said one or more symbols being set;

step for comparing said bit vector with one or more other bit vectors representing at least one candidate keyword string to create a set of matching bit vectors;

step for applying a conventional keyword matching algorithm to said at least one candidate keyword string represented by said set of matching bit vectors; and

step for presenting any matching candidate keyword strings.

85. (Original) The method of claim 84, further comprising step for preempting said method after a predetermined amount of time.

86. (Original) The method of claim 85 wherein said predetermined amount of time is two seconds.

87. (Original) The method of claim 84 wherein aid comparing is independent of the order of keyword prefixes in keyword strings.

88. (Previously Presented) A method for incremental keyword search on a wireless user device, the method comprising:

step for receiving from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols, each symbol representing the first symbol of a word in a search string;

step for receiving a hierarchy, elements of said hierarchy comprising intermediate nodes and leaf nodes representing one or more keyword strings comprising one or more words comprising one or more symbols;

step for creating hierarchy bit vectors corresponding to said one or more keyword strings in said hierarchy;

step for searching said hierarchy bit vectors for a match with said input keyword string, said step for searching comprising, for each of said elements of said hierarchy:

step for saving said input keyword string;

step for applying a logical

“AND” operation to the bit vector of the element and a bit vector based at least in part on said input keyword string, said applying producing a result;
step for if said result is nonzero, removing from said input keyword string any words in said input keyword string that are prefixes of words in the element;
step for if said input keyword string is empty, adding said element to a list of matched items;
and
step for restoring said input keyword string; and
step for rendering said list of matched items.

89. (Currently Amended) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for creating a keyword string database on a wireless user device, the method comprising:
determining one or more candidate keyword strings to store in said database;
for each of said one or more candidate keyword strings, creating a single bit vector ~~one or more bit vectors~~ based at least in part on said each of said one or more candidate keyword strings, said ~~one or more~~ bit vectors for use in comparing an input bit vector with said ~~one or more~~ bit vectors to indicate whether an input keyword string represented by said input bit vector matches said one or more candidate keyword strings, said input keyword string provided by a user of said wireless user device; and
storing said one or more bit vectors and a reference to said one or more candidate keyword strings in said database.

90. (Original) The program storage device of claim 89 wherein said bit vector further comprises at least one bit that represents a non-alphanumeric symbol.

91. (Original) The program storage device of claim 90 wherein said non-alphanumeric symbol indicates an email address.

92. (Original) The program storage device of claim 90 wherein said non-alphanumeric symbol indicates a mobile number.

93. (Original) The program storage device of claim 90 wherein said non-alphanumeric symbol indicates a wired number.

94. (Original) The program storage device of claim 90 wherein said non-alphanumeric symbol indicates a paper-mail address.

95. (Original) The program storage device of claim 90 wherein said non-alphanumeric symbol indicates a cost ranking.

96. (Original) The program storage device of claim 90 wherein said non-alphanumeric symbol indicates a quality ranking.

97. (Original) The program storage device of claim 90 wherein said non-alphanumeric symbol indicates a cuisine.

98-100 (Cancelled)

101. (Currently Amended) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for incremental keyword search on a wireless user device, the method comprising:
- receiving from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols;
 - creating a single bit vector based at least in part on said input keyword string;
 - comparing said bit vector with one or more other bit vectors representing at least one candidate keyword string to create a set of matching bit vectors;
 - applying a conventional keyword matching algorithm to said at least one candidate keyword string represented by said set of matching bit vectors; and
 - presenting any matching candidate keyword strings.
102. (Original) The program storage device of claim 101 wherein said method further comprises preempting said method after a predetermined amount of time.
103. (Original) The program storage device of claim 102 wherein said predetermined amount of time is two seconds.
104. (Original) The program storage device of claim 101 wherein said comparing is independent of the order of keyword prefixes in keyword strings.
105. (Currently Amended) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for creating a keyword string database on a wireless user device, the method comprising:

determining one or more candidate keyword strings to store in said database;

for each of said one or more candidate keyword strings, creating a single bit vector ~~one or~~

~~more bit vectors~~ based at least in part on said each of said one or more candidate

keyword strings, said bit vector having a bit position for each symbol in an alphabet and

having bits set for bit positions corresponding to at least one symbol representing the

first symbol of a word in said each of said one or more candidate keyword strings, said

~~one or more~~ bit vectors for use in comparing an input bit vector with said ~~one or more~~

bit vectors to indicate whether an input keyword string represented by said input bit

vector matches said one or more candidate keyword strings; and

storing said one or more bit vectors and a reference to said one or more candidate keyword

strings in said database.

106. (Previously Presented) A program storage device readable by a machine, embodying a

program of instructions executable by the machine to perform a method for incremental

keyword search on a wireless user device, the method comprising:

submitting to said wireless user device an input keyword string comprising one or more

words comprising one or more symbols; and

receiving in response to said submitting at least one candidate keyword string where the first

symbol of at least one word in each of said at least one candidate keyword string

matches the first symbol of the corresponding word in said input keyword string.

107. (Original) The program storage device of claim 106 wherein said method further

comprises preempting said method after a predetermined amount of time.

108. (Original) The program storage device of claim 107 wherein said predetermined amount of time is two seconds.

109. (Currently Amended) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for incremental keyword search on a wireless user device, the method comprising:

receiving from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols;

creating a single bit vector based at least in part on said input keyword string, said bit vector having a bit position for each symbol in an alphabet and having bits set for positions corresponding to at least one symbol representing the first symbol of a word in said input keyword string;

comparing said bit vector with one or more other bit vectors representing at least one candidate keyword string to create a set of matching bit vectors;

applying a conventional keyword matching algorithm to said at least one candidate keyword string represented by said set of matching bit vectors; and

presenting any matching candidate keyword strings.

110. (Original) The program storage device of claim 109 wherein said method further comprises preempting said method after a predetermined amount of time.

111. (Original) The program storage device of claim 110 wherein said predetermined amount of time is two seconds.

112. (Original) The program storage device of claim 109 wherein said comparing is independent of the order of keyword prefixes in keyword strings.
113. (Previously Presented) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for comparing keyword strings on a wireless user device, the method comprising:
- determining a relative frequency of use for at least one symbol in a language;
 - assigning a statistical weighting to said at least one symbol based at least in part on a relative frequency of use of said at least one symbol;
 - assigning each of said at least one symbol to one of a plurality of groups; and
 - comparing a first keyword string and a second keyword string based at least in part on whether at least one symbol of said first keyword string is assigned to the same group as at least one corresponding symbol of said second keyword string.
114. (Original) The program storage device of claim 113 wherein said assigning further comprises assigning each of said at least one symbol to one of a plurality of groups so as to minimize the difference between the sums of statistical weightings for symbols comprising each group in said plurality of groups.
115. (Original) The program storage device of claim 113 wherein said relative frequency of use comprises the relative frequency of use of symbols in the first character of words in said language.

116. (Previously Presented) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for creating a keyword string database on a wireless user device, the method comprising:

determining one or more candidate keyword strings to store in said database;

creating one or more bit vectors based at least in part on said one or more candidate keyword strings, each bit of said one or more bit vectors corresponding to one or more symbols in an alphabet, bits having a bit position corresponding to the first symbol of a word in said one or more candidate keyword strings being set, said one or more bit vectors for use in comparing an input bit vector with said one or more bit vectors to indicate whether an input keyword string represented by said input bit vector matches said one or more candidate keyword strings; and

storing said one or more bit vectors and a reference to said one or more candidate keyword strings in said database.

117-119 (Cancelled)

120. (Currently Amended) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for incremental keyword search on a wireless user device, the method comprising:

receiving from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols, each symbol representing the first symbol of a word in a search string;

creating a single bit vector based at least in part on said input keyword string, each bit corresponding to one or more symbols in an alphabet, bits having a bit position corresponding to said one or more symbols being set;

comparing said bit vector with one or more other bit vectors representing at least one candidate keyword string to create a set of matching bit vectors;

applying a conventional keyword matching algorithm to said at least one candidate keyword string represented by said set of matching bit vectors; and

presenting any matching candidate keyword strings.

121. (Original) The program storage device of claim 120 wherein said method further comprises preempting said method after a predetermined amount of time.

122. (Original) The program storage device of claim 121 wherein said predetermined amount of time is two seconds.

123. (Original) The program storage device of claim 120 wherein said comparing is independent of the order of keyword prefixes in keyword strings.

124. (Previously Presented) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for creating a keyword string database on a wireless user device, the method comprising:

determining one or more candidate keyword strings to store in said database;

creating one or more bit vectors based at least in part on said one or more candidate keyword strings, each bit of said one or bit vector corresponding to one or more symbols in an

alphabet, bits having a bit position corresponding to a symbol of a prefix of a word in said one or more candidate keyword strings being set, said one or more bit vectors for use in comparing an input bit vector with said one or more bit vectors to indicate whether an input keyword string represented by said input bit vector matches said one or more candidate keyword strings; and
storing said one or more bit vectors and a reference to said one or more candidate keyword strings in said database.

125. (Previously Presented) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for incremental keyword search on a wireless user device, the method comprising:
submitting an input keyword string comprising one or more words comprising one or more symbols; and
receiving in response to said submitting at least one candidate keyword string where a prefix of a word of a matching candidate keyword string comprises at least one symbol that belongs to the same symbol group as the corresponding symbol of the corresponding word in said input keyword string.

126. (Original) The program storage device of claim 125 wherein said method further comprises preempting said method after a predetermined amount of time.

127. (Original) The program storage device of claim 126 wherein said predetermined amount of time is two seconds.

128. (Currently Amended) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for incremental keyword search on a wireless user device, the method comprising:
- receiving from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols;
 - creating a single bit vector based at least in part on said input keyword string, each bit corresponding to one or more symbols in an alphabet, bits having a bit position corresponding to a prefix of a word in said one or more symbols being set;
 - comparing said bit vector with one or more other bit vectors representing at least one candidate keyword string to create a set of matching bit vectors;
 - applying a conventional keyword matching algorithm to said at least one candidate keyword string represented by said set of matching bit vectors; and
 - presenting any matching candidate keyword strings.
129. (Original) The program storage device of claim 128 wherein said method further comprises preempting said method after a predetermined amount of time.
130. (Original) The program storage device of claim 129 wherein said predetermined amount of time is two seconds.
131. (Original) The program storage device of claim 128 wherein said comparing is independent of the order of keyword prefixes in keyword strings.

132. (Previously Presented) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for incremental keyword search on a wireless user device, the method comprising:
- receiving from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols, each symbol representing the first symbol of a word in a search string;
 - receiving a hierarchy, elements of said hierarchy comprising intermediate nodes and leaf nodes representing one or more keyword strings comprising one or more words comprising one or more symbols;
 - creating hierarchy bit vectors corresponding to said one or more keyword strings in said hierarchy;
 - searching said hierarchy bit vectors for a match with said input keyword string, said searching comprising, for each of said elements of said hierarchy:
 - saving said input keyword string;
 - applying a logical “AND” operation to the bit vector of the element and a bit vector based at least in part on said input keyword string, said applying producing a result;
 - if said result is nonzero, removing from said input keyword string any words in said input keyword string that are prefixes of words in the element;
 - if said input keyword string is empty, adding said element to a list of matched items; and
 - restoring said input keyword string; and
 - rendering said list of matched items.
133. (Currently Amended) An apparatus for creating a keyword string database on a wireless user device, the apparatus comprising:

means for determining one or more candidate keyword strings to store in said database;
means for, for each of said one or more candidate keyword strings, creating a single bit
vector ~~one or more bit vectors~~ based at least in part on said each of said one or more
candidate keyword strings, said ~~one or more~~ bit vectors for use in comparing an input bit
vector with said ~~one or more~~ bit vectors to indicate whether an input keyword string
represented by said input bit vector matches said one or more candidate keyword
strings, said input keyword string provided by a user of said wireless user device; and
means for storing said one or more bit vectors and a reference to said one or more candidate
keyword strings in said database.

134. (Original) The apparatus of claim 133 wherein said bit vector further comprises at least one bit that represents a non-alphanumeric symbol.
135. (Original) The apparatus of claim 134 wherein said non-alphanumeric symbol indicates an email address.
136. (Original) The apparatus of claim 134 wherein said non-alphanumeric symbol indicates a mobile number.
137. (Original) The apparatus of claim 134 wherein said non-alphanumeric symbol indicates a wired number.
138. (Original) The apparatus of claim 134 wherein said non-alphanumeric symbol indicates a paper-mail address.

139. (Original) The apparatus of claim 134 wherein said non-alphanumeric symbol indicates a cost ranking.
140. (Original) The apparatus of claim 134 wherein said non-alphanumeric symbol indicates a quality ranking.
141. (Original) The apparatus of claim 134 wherein said non-alphanumeric symbol indicates a cuisine.
142. (Currently Amended) An apparatus for incremental keyword search on a wireless user device, the apparatus comprising:
- means for receiving from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols;
 - means for creating a single bit vector based at least in part on said input keyword string;
 - means for comparing said bit vector with one or more other bit vectors representing at least one candidate keyword string to create a set of matching bit vectors;
 - means for applying a conventional keyword matching algorithm to said at least one candidate keyword string represented by said set of matching bit vectors; and
 - means for presenting any matching candidate keyword strings.
143. (Original) The apparatus of claim 142, further comprising means for preempting said receiving, said creating, said comparing, said applying and said presenting after a predetermined amount of time.

144. (Original) The apparatus of claim 143 wherein said predetermined amount of time is two seconds.

145. (Original) The apparatus of claim 142 wherein said comparing is independent of the order of keyword prefixes in keyword strings.

146. (Currently Amended) An apparatus for creating a keyword string database on a wireless user device, the apparatus comprising:
means for determining one or more candidate keyword strings to store in said database;
means for, for each of said one or more candidate keyword strings, creating a single bit vector ~~one or more bit vectors~~ based at least in part on said each of said one or more candidate keyword strings, said bit vector having a bit position for each symbol in an alphabet and having bits set for bit positions corresponding to at least one symbol representing the first symbol of a word in said each of said one or more candidate keyword strings, said ~~one or more~~ bit vectors for use in comparing an input bit vector with said ~~one or more~~ bit vectors to indicate whether an input keyword string represented by said input bit vector matches said one or more candidate keyword strings; and
means for storing said one or more bit vectors and a reference to said one or more candidate keyword strings in said database.

147. (Currently Amended) An apparatus for incremental keyword search on a resource-constrained device, the apparatus comprising:

means for receiving from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols;

means for creating a single bit vector based at least in part on said input keyword string, said bit vector having a bit position for each symbol in an alphabet and having bits set for positions corresponding to at least one symbol representing the first symbol of a word in said input keyword string;

means for comparing said bit vector with one or more other bit vectors representing at least one candidate keyword string to create a set of matching bit vectors;

means for applying a conventional keyword matching algorithm to said at least one candidate keyword string represented by said set of matching bit vectors; and

means for presenting any matching candidate keyword strings.

148. (Original) The apparatus of claim 147, further comprising means for preempting said receiving, said creating, said comparing, said applying and said presenting after a predetermined amount of time.

149. (Original) The apparatus of claim 148 wherein said predetermined amount of time is two seconds.

150. (Original) The apparatus of claim 147 wherein said comparing is independent of the order of keyword prefixes in keyword strings.

151. (Previously Presented) An apparatus for comparing keyword strings on a wireless user device, the apparatus comprising:

means for determining a relative frequency of use for at least one symbol in a language;
means for assigning a statistical weighting to said at least one symbol based at least in part
on a relative frequency of use of said at least one symbol;
means for assigning each of said at least one symbol to one of a plurality of groups; and
means for comparing a first keyword string and a second keyword string based at least in
part on whether at least one symbol of said first keyword string is assigned to the same
group as at least one corresponding symbol of said second keyword string.

152. (Original) The apparatus of claim 151 wherein said means for assigning further
comprises means for assigning each of said at least one symbol to one of a plurality of groups
so as to minimize the difference between the sums of statistical weightings for symbols
comprising each group in said plurality of groups.

153. (Original) The apparatus of claim 151 wherein said relative frequency of use comprises
the relative frequency of use of symbols in the first character of words in said language.

154. (Previously Presented) An apparatus for creating a keyword string database on a wireless
user device, the apparatus comprising:
means for determining one or more candidate keyword strings to store in said database;
means for creating one or more bit vectors based at least in part on said one or more
candidate keyword strings, each bit of said one or more bit vectors corresponding to one
or more symbols in an alphabet, bits having a bit position corresponding to the first
symbol of a word in said one or more candidate keyword strings being set, said one or
more bit vectors for use in comparing an input bit vector with said one or more bit

vectors to indicate whether an input keyword string represented by said input bit vector matches said one or more candidate keyword strings; and
means for storing said one or more bit vectors and a reference to said one or more candidate keyword strings in said database.

155. (Currently Amended) An apparatus for incremental keyword search on a wireless user device, the apparatus comprising:

means for receiving from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols, each symbol representing the first symbol of a word in a search string;
means for creating a single bit vector based at least in part on said input keyword string, each bit corresponding to one or more symbols in an alphabet, bits having a bit position corresponding to said one or more symbols being set;
means for comparing said bit vector with one or more other bit vectors representing at least one candidate keyword string to create a set of matching bit vectors;
means for applying a conventional keyword matching algorithm to said at least one candidate keyword string represented by said set of matching bit vectors; and
means for presenting any matching candidate keyword strings.

156. (Original) The apparatus of claim 155, further comprising means for preempting said receiving, said creating, said comparing, said applying and said presenting after a predetermined amount of time.

157. (Original) The apparatus of claim 156 wherein said predetermined amount of time is two seconds.

158. (Original) The apparatus of claim 155 wherein said comparing is independent of the order of keyword prefixes in keyword strings.

159. (Previously Presented) An apparatus for creating a keyword string database on a wireless user device, the apparatus comprising:

means for determining one or more candidate keyword strings to store in said database;

means for creating one or more bit vectors based at least in part on said one or more

candidate keyword strings, each bit of said one or bit vector corresponding to one or

more symbols in an alphabet, bits having a bit position corresponding to a symbol of a

prefix of a word in said one or more candidate keyword strings being set, said one or

more bit vectors for use in comparing an input bit vector with said one or more bit

vectors to indicate whether an input keyword string represented by said input bit vector

matches said one or more candidate keyword strings; and

means for storing said one or more bit vectors and a reference to said one or more candidate

keyword strings in said database.

160. (Previously Presented) An apparatus for incremental keyword search on a wireless user device, the apparatus comprising:

means for receiving from a user of said wireless user device an input keyword string

comprising one or more words comprising one or more symbols;

means for creating a bit vector based at least in part on said input keyword string, each bit corresponding to one or more symbols in an alphabet, bits having a bit position corresponding to a prefix of a word in said one or more symbols being set;

means for comparing said bit vector with one or more other bit vectors representing at least one candidate keyword string to create a set of matching bit vectors;

means for applying a conventional keyword matching algorithm to said at least one candidate keyword string represented by said set of matching bit vectors; and

means for presenting any matching candidate keyword strings.

161. (Original) The apparatus of claim 160, further comprising means for preempting said said receiving, said creating, said comparing, said applying and said presenting after a predetermined amount of time.

162. (Original) The apparatus of claim 161 wherein said predetermined amount of time is two seconds.

163. (Original) The apparatus of claim 160 wherein said comparing is independent of the order of keyword prefixes in keyword strings.

164. (Previously Presented) An apparatus for incremental keyword search on a wireless user device, the apparatus comprising:

means for receiving from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols, each symbol representing the first symbol of a word in a search string;

means for receiving a hierarchy, elements of said hierarchy comprising intermediate nodes and leaf nodes representing one or more keyword strings comprising one or more words comprising one or more symbols;

means for creating hierarchy bit vectors corresponding to said one or more keyword strings in said hierarchy;

means for searching said hierarchy bit vectors for a match with said input keyword string, said means for searching comprising, for each of said elements of said hierarchy:

means for saving said input keyword string;

means for applying a logical “AND” operation to the bit vector of the element and a bit vector based at least in part on said input keyword string, said applying producing a result;

means for if said result is nonzero, removing from said input keyword string any words in said input keyword string that are prefixes of words in the element;

means for if said input keyword string is empty, adding said element to a list of matched items; and

means for restoring said input keyword string; and

means for rendering said list of matched items.

165. (Currently Amended) An apparatus for creating a keyword string database on a wireless user device, the apparatus comprising:
- a memory for storing said keyword string database; and
 - a processor configured to:
 - determine one or more candidate keyword strings to store in said database;

for each of said one or more candidate keyword strings, create a single bit vector ~~one or more bit vectors~~ based at least in part on said each of said one or more candidate keyword strings, said ~~one or more~~ bit vectors for use in comparing an input bit vector with said ~~one or more~~ bit vectors to indicate whether an input keyword string represented by said input bit vector matches said one or more candidate keyword strings, said input keyword string provided by a user of said wireless user device; and store said one or more bit vectors and a reference to said one or more candidate keyword strings in said database.

166. (Original) The apparatus of claim 165 wherein said bit vector further comprises at least one bit that represents a non-alphanumeric symbol.

167. (Original) The apparatus of claim 166 wherein said non-alphanumeric symbol indicates an email address.

168. (Original) The apparatus of claim 166 wherein said non-alphanumeric symbol indicates a mobile number.

169. (Original) The apparatus of claim 166 wherein said non-alphanumeric symbol indicates a wired number.

170. (Original) The apparatus of claim 166 wherein said non-alphanumeric symbol indicates a paper-mail address.

171. (Original) The apparatus of claim 166 wherein said non-alphanumeric symbol indicates a cost ranking.
172. (Original) The apparatus of claim 166 wherein said non-alphanumeric symbol indicates a quality ranking.
173. (Original) The apparatus of claim 166 wherein said non-alphanumeric symbol indicates a cuisine.
174. (Currently Amended) An apparatus for incremental keyword search on a wireless user device, the apparatus comprising:
- a user interface configured to receive from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols, said user interface further configured to present any matching keyword strings; and
 - a search engine in communication with said user interface and configured to:
 - create a single bit vector based at least in part on said input keyword string;
 - compare said bit vector with one or more other bit vectors representing at least one candidate keyword string to create a set of matching bit vectors; and
 - apply a conventional keyword matching algorithm to said at least one candidate keyword string represented by said set of matching bit vectors.
175. (Previously Presented) The apparatus of claim 174 wherein said apparatus is further configured to preempt said search engine after a predetermined amount of time.

176. (Original) The apparatus of claim 175 wherein said predetermined amount of time is two seconds.

177. (Original) The apparatus of claim 174 wherein said apparatus is further configured to compare said bit vector independent of the order of keyword prefixes in keyword strings.

178. (Currently Amended) An apparatus for creating a keyword string database on a wireless user device, the apparatus comprising:

a memory for storing said keyword string database; and

a processor configured to:

determine one or more candidate keyword strings to store in said database;

for each of said one or more candidate keyword strings, create a single bit vector ~~one or~~

~~more bit vectors~~ based at least in part on said each of said one or more candidate

keyword strings, said bit vector having a bit position for each symbol in an alphabet and

having bits set for bit positions corresponding to at least one symbol representing the

first symbol of a word in said each of said one or more candidate keyword strings, said

~~one or more~~ bit vectors for use in comparing an input bit vector with said ~~one or more~~

bit vectors to indicate whether an input keyword string represented by said input bit

vector matches said one or more candidate keyword strings; and

store said one or more bit vectors and a reference to said one or more candidate keyword strings in said database.

179. (Currently Amended) An apparatus for incremental keyword search on a wireless user device, the apparatus comprising:

a user interface configured to receive from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols, said user interface further configured to present any matching keyword strings; and a search engine in communication with said user interface and configured to: create a single bit vector based at least in part on said input keyword string, said bit vector having a bit position for each symbol in an alphabet and having bits set for positions corresponding to at least one symbol representing the first symbol of a word in said input keyword string; compare said bit vector with one or more other bit vectors representing at least one candidate keyword string to create a set of matching bit vectors; and apply a conventional keyword matching algorithm to said at least one candidate keyword string represented by said set of matching bit vectors.

180. (Previously Presented) The apparatus of claim 179 wherein said apparatus is further configured to preempt said search engine after a predetermined amount of time.

181. (Original) The apparatus of claim 180 wherein said predetermined amount of time is two seconds.

182. (Original) The apparatus of claim 179 wherein said apparatus is further configured to compare said bit vector independent of the order of keyword prefixes in keyword strings.

183. (Previously Presented) An apparatus for comparing keyword strings on a wireless user device, the apparatus comprising:

a memory for storing at least one relative frequency of use for at least one symbol in a language; and

a processor configured to:

determine a relative frequency of use for at least one symbol in a language;

assign a statistical weighting to said at least one symbol based at least in part on a relative frequency of use of said at least one symbol;

assign each of said at least one symbol to one of a plurality of groups; and

compare a first keyword string and a second keyword string based at least in part on whether at least one symbol of said first keyword string is assigned to the same group as at least one corresponding symbol of said second keyword string.

184. (Original) The apparatus of claim 183 wherein said processor is further configured to assign each of said at least one symbol to one of a plurality of groups so as to minimize the difference between the sums of statistical weightings for symbols comprising each group in said plurality of groups.

185. (Original) The apparatus of claim 183 wherein said relative frequency of use comprises the relative frequency of use of symbols in the first character of words in said language.

186. (Previously Presented) An apparatus for creating a keyword string database on a wireless user device, the apparatus comprising:

a memory for storing said keyword string database; and

a processor configured to:

determine one or more candidate keyword strings to store in said database;

create one or more bit vectors based at least in part on said one or more candidate keyword strings, each bit of said one or more bit vectors corresponding to one or more symbols in an alphabet, bits having a bit position corresponding to the first symbol of a word in said one or more candidate keyword strings being set, said one or more bit vectors for use in comparing an input bit vector with said one or more bit vectors to indicate whether an input keyword string represented by said input bit vector matches said one or more candidate keyword strings; and

store said one or more bit vectors and a reference to said one or more candidate keyword strings in said database.

187. (Currently Amended) An apparatus for incremental keyword search on a wireless user device, the apparatus comprising:

a user interface configured to receive from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols, each symbol representing the first symbol of a word in a search string, said user interface further configured to present any matching keyword strings; and

a search engine in communication with said user interface and configured to:

create a single bit vector based at least in part on said input keyword string, each bit corresponding to one or more symbols in an alphabet, bits having a bit position corresponding to said one or more symbols being set;

compare said bit vector with one or more other bit vectors representing at least one candidate keyword string to create a set of matching bit vectors; and

apply a conventional keyword matching algorithm to said at least one candidate keyword string represented by said set of matching bit vectors.

188. (Previously Presented) The apparatus of claim 187 wherein said apparatus is further configured to preempt said search engine after a predetermined amount of time.
189. (Original) The apparatus of claim 188 wherein said predetermined amount of time is two seconds.
190. (Original) The apparatus of claim 187 wherein said apparatus is further configured to compare said bit vector independent of the order of keyword prefixes in keyword strings.
191. (Previously Presented) An apparatus for creating a keyword string database on a wireless user device, the apparatus comprising:
- a memory for storing said keyword string database; and
 - a processor configured to:
 - determine one or more candidate keyword strings to store in said database;
 - create one or more bit vectors based at least in part on said one or more candidate keyword strings, each bit of said one or bit vector corresponding to one or more symbols in an alphabet, bits having a bit position corresponding to a symbol of a prefix of a word in said one or more candidate keyword strings being set, said one or more bit vectors for use in comparing an input bit vector with said one or more bit vectors to indicate whether an input keyword string represented by said input bit vector matches said one or more candidate keyword strings; and
 - store said one or more bit vectors and a reference to said one or more candidate keyword strings in said database.

192. (Previously Presented) An apparatus for incremental keyword search on a wireless user device, the apparatus comprising:

a user interface configured to receive from a user of said wireless user device an input

keyword string comprising one or more words comprising one or more symbols, said

user interface further configured to present any matching keyword strings; and

a search engine in communication with said user interface and configured to:

create a bit vector based at least in part on said input keyword string, each bit corresponding

to one or more symbols in an alphabet, bits having a bit position corresponding to a

prefix of a word in said one or more symbols being set;

compare said bit vector with one or more other bit vectors representing at least one candidate

keyword string to create a set of matching bit vectors; and

apply a conventional keyword matching algorithm to said at least one candidate keyword

string represented by said set of matching bit vectors.

193. (Previously Presented) The apparatus of claim 192 wherein said apparatus is further configured to preempt said search engine after a predetermined amount of time.

194. (Original) The apparatus of claim 193 wherein said predetermined amount of time is two seconds.

195. (Original) The apparatus of claim 192 wherein said apparatus is further configured to compare said bit vector independent of the order of keyword prefixes in keyword strings.

196. (Previously Presented) An apparatus for incremental keyword search on a wireless user device, the apparatus comprising:
- a user interface configured to receive from a user of said wireless user device an input keyword string comprising one or more words comprising one or more symbols, said user interface further configured to present any matching keyword strings; and
 - a search engine in communication with said user interface and configured to:
 - receive an input keyword string comprising one or more words comprising one or more symbols, each symbol representing the first symbol of a word in a search string;
 - receive a hierarchy, elements of said hierarchy comprising intermediate nodes and leaf nodes representing one or more keyword strings comprising one or more words comprising one or more symbols;
 - create hierarchy bit vectors corresponding to said one or more keyword strings in said hierarchy;
 - search said hierarchy bit vectors for a match with said input keyword string, said apparatus further configured to, for each of said elements of said hierarchy:
 - save said input keyword string;
 - apply a logical “AND” operation to the bit vector of the element and a bit vector based at least in part on said input keyword string, said applying producing a result;
 - if said result is nonzero, remove from said input keyword string any words in said input keyword string that are prefixes of words in the element;
 - if said input keyword string is empty, add said element to a list of matched items; and
 - restoring said input keyword string; and
 - render said list of matched items; and

apply a conventional keyword matching algorithm to said at least one keyword string represented by one or more element in said list of matched items.

197. (Previously Presented) A method for comparing keyword strings on a wireless user device, the method comprising:
- assigning each of at least one symbol in a language to one of a plurality of groups; and
- comparing a first keyword string and a second keyword string based at least in part on whether at least one symbol of said first keyword string is assigned to the same group as at least one corresponding symbol of said second keyword string.
198. (Original) The method of claim 197 wherein said plurality of groups corresponds with a telephone keyboard symbol grouping.
199. (Previously Presented) A method for comparing keyword strings on a wireless user device, the method comprising:
- step for assigning each of at least one symbol in a language to one of a plurality of groups;
- and
- step for comparing a first keyword string and a second keyword string based at least in part on whether at least one symbol of said first keyword string is assigned to the same group as at least one corresponding symbol of said second keyword string.
200. (Original) The method of claim 199 wherein said plurality of groups corresponds with a telephone keyboard symbol grouping.

201. (Previously Presented) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for comparing keyword strings on a wireless user device, the method comprising:
- assigning each of at least one symbol in a language to one of a plurality of groups; and
- comparing a first keyword string and a second keyword string based at least in part on whether at least one symbol of said first keyword string is assigned to the same group as at least one corresponding symbol of said second keyword string.
202. (Original) The program storage device of claim 201 wherein said plurality of groups corresponds with a telephone keyboard symbol grouping.
203. (Previously Presented) An apparatus for comparing keyword strings on a wireless user device, the apparatus comprising:
- means for assigning each of at least one symbol in a language to one of a plurality of groups;
- and
- means for comparing a first keyword string and a second keyword string based at least in part on whether at least one symbol of said first keyword string is assigned to the same group as at least one corresponding symbol of said second keyword string.
204. (Original) The apparatus of claim 203 wherein said plurality of groups corresponds with a telephone keyboard symbol grouping.
205. (Previously Presented) An apparatus for comparing keyword strings on a wireless user device, the apparatus comprising:

a memory for storing said keyword strings; and
a processor configured to:
assign each of at least one symbol in a language to one of a plurality of groups; and
compare a first keyword string and a second keyword string based at least in part on whether
at least one symbol of said first keyword string is assigned to the same group as at least
one corresponding symbol of said second keyword string.

206. (Original) The apparatus of claim 205 wherein said plurality of groups corresponds with
a telephone keyboard symbol grouping.